

## CLAIMS

1           1.       A gas cigarette lighter comprising:  
2               a fuel reservoir made of a rigid amorphous polymer material, the reservoir having a  
3       top wall; and a well having a bottom end, the well passing through the top wall;  
4               a threaded ring, the threaded ring being disposed within the well;  
5               a gas dispensing device including at least one tubular element having a bottom  
6       portion, the tubular element being fitted into the threaded ring, and  
7               a microporous membrane, the membrane being received within the tubular element,  
8               wherein the bottom portion of the tubular element extends at least to the bottom end  
9       of the well.

1           2.       A gas cigarette lighter according to claim 1, wherein the bottom portion of  
2       the tubular element and the bottom end of the well are flush with one another.

1           3.       A gas cigarette lighter according to claim 1, wherein the bottom portion of  
2       the tubular element extends beyond the bottom end of the well.

1           4.       A gas cigarette lighter according to claim 1, wherein the threaded ring has a  
2       first opening and a second opening, the tubular element passes through the first and second  
3       openings of the threaded ring.

1           5.       A gas cigarette lighter according to claim 1, wherein an annular sealing  
2       gasket is disposed between the tubular element and the top wall.

1           6.       A gas cigarette lighter according to claim 5, wherein the top wall is provided  
2       with a radially extending rim against which the annular sealing gasket is held in abutment  
3       by the threaded ring.

1           7.       A gas cigarette lighter according to claim 1, wherein the tubular element is  
2       made of metal.

1           8.       A gas cigarette lighter according to claim 7, wherein the microporous  
2       membrane is held against an internal shoulder in the tubular element by being pressed  
3       against a retaining ring, the tubular element having a bottom end crimped against said  
4       retaining ring.

1           9.       A cigarette lighter according to claim 1, wherein the reservoir includes a  
2 bowl having a top end bonded to the top wall.

1           10.     A cigarette lighter according to claim 1, wherein the reservoir is formed of a  
2 material selected from at least one of the group consisting of ABSs and SANs.

1           11.     A gas cigarette lighter comprising:

2 a fuel reservoir having a top wall;

3 a well disposed within the top wall; the well having a bottom end;

4 a threaded ring being disposed within the well;

5 a gas dispensing device including at least one tubular element having a bottom  
6 portion, the tubular element being disposed within the threaded ring; and

7 a microporous membrane being received within the tubular element,

8 wherein the bottom portion of the tubular element extends at least to the bottom end  
9 of the well.

1           12.     A gas cigarette lighter according to claim 11, wherein the bottom portion of  
2 the tubular element and the bottom end of the well are flush with one another.

1           13.     A gas cigarette lighter according to claim 11, wherein the bottom portion of  
2 the tubular element extends beyond the bottom end of the well.

1           14.     A gas cigarette lighter according to claim 11, wherein the threaded ring has a  
2 first opening and a second opening, the tubular element passes through the first and second  
3 opening of the threaded ring.

1           15.     A gas cigarette lighter according to claim 11, wherein an annular sealing  
2 gasket is disposed between the tubular element and the top wall.

1           16.     A gas cigarette lighter according to claim 15, wherein the top wall is  
2 provided with a radially extending rim against which the annular sealing gasket is held in  
3 abutment by the threaded ring.

1           17.     A gas cigarette lighter according to claim 11, wherein the tubular element is  
2 made of metal.

1           18.     A gas cigarette lighter according to claim 17, wherein the microporous  
2 membrane is held against an internal shoulder in the tubular element by being pressed  
3 against a retaining ring, the tubular element having a bottom end crimped against said  
4 retaining ring.

1           19.     A cigarette lighter according to claim 11, wherein the reservoir includes a  
2 bowl having a top end bonded to the top wall.

1           20.     A cigarette lighter according to claim 11, wherein the reservoir is formed of  
2 a material selected from at least one of the group consisting of ABSs and SANs.

1           21.     A gas cigarette lighter comprising a reservoir including a top wall for  
2 containing a fuel supply; a gas dispensing device for releasing fuel from the fuel supply; a  
3 control device for actuating the gas dispensing device and releasing the fuel; and an ignition  
4 mechanism for igniting the released fuel; the lighter further comprising:

5           a well is disposed within the top wall; the well having a bottom end; and

6           a threaded ring being disposed within the well;

7           wherein the gas dispensing device includes at least one tubular element having a  
8 bottom portion, the tubular element being disposed within the threaded ring; the bottom  
9 portion extending at least to the bottom end.

1           22.     A gas cigarette lighter according to claim 21, further comprising a  
2 microporous membrane disposed within the tubular element.

1           23.     A gas cigarette lighter according to claim 21, wherein the bottom portion of  
2 the tubular element and the bottom end of the well are flush with one another.

1           24.     A gas cigarette lighter according to claim 21, wherein the bottom portion of  
2 the tubular element extends beyond the bottom end of the well.

1           25.     A gas cigarette lighter according to claim 21, wherein the threaded ring has a  
2 first opening and a second opening, the tubular element passes through the first and second  
3 openings of the threaded ring.

1           26.     A gas cigarette lighter according to claim 21, wherein an annular sealing  
2 gasket is disposed between the tubular element and the top wall.

1           27.     A gas cigarette lighter according to claim 26, wherein the top wall is  
2 provided with a radially extending rim against which the annular sealing gasket is held in  
3 abutment by the threaded ring.

1           28.     A gas cigarette lighter according to claim 22, wherein the tubular element is  
2 made of metal.

1           29.     A gas cigarette lighter according to claim 28, wherein the microporous  
2 membrane is held against an internal shoulder in the tubular element by being pressed  
3 against a retaining ring, the tubular element having a bottom end crimped against said  
4 retaining ring.

1           30.     A cigarette lighter according to claim 21, wherein the reservoir includes a  
2 bowl having a top end bonded to the top wall.

1           31.     A cigarette lighter according to claim 21, wherein the reservoir is formed of  
2 a material selected from at least one of the group consisting of ABSs and SANs.